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ATTORNEY DOCKET NO. CONFIRMATION NO.

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/743,870	12/24/2003	Yuji Yasui	108419-00055	9352	
7:	7590 12/28/2005			EXAMINER	
ARENT FOX KINTNER PLOTKIN & KAHN, PLLC Suite 600 1050 Connecticut Avenue, N.W.			TRAN, BINH Q		
			ART UNIT	PAPER NUMBER	
	Washington, DC 20036-5339		3748		

DATE MAILED: 12/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
Office Action Summany	10/743,870	YASUI ET AL.		
Office Action Summary	Examiner	Art Unit		
	BINH Q. TRAN	3748		
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	rith the correspondence address		
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI R 1.136(a). In no event, however, may a riod will apply and will expire SIX (6) MO atute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).		
Status		,		
1) Responsive to communication(s) filed on 2	2 September 2005.			
	This action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the mer				
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.I	D. 11, 453 O.G. 213.		
Disposition of Claims				
4) Claim(s) 1-12 is/are pending in the applicat	ion.			
4a) Of the above claim(s) is/are with	drawn from consideration.			
5) Claim(s) is/are allowed.				
6) Claim(s) <u>1,3-5,7-9,11 and 12</u> is/are rejected	.t			
7) Claim(s) <u>2,6 and 10</u> is/are objected to.				
8) Claim(s) are subject to restriction an	d/or election requirement.			
Application Papers				
9) The specification is objected to by the Exam	niner.			
10)☐ The drawing(s) filed on is/are: a)☐ a	accepted or b) objected to	by the Examiner.		
Applicant may not request that any objection to				
Replacement drawing sheet(s) including the cor	•			
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form P1O-152.		
Priority under 35 U.S.C. § 119				
12)⊠ Acknowledgment is made of a claim for fore a)⊠ All b)□ Some * c)□ None of:	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).		
1. Certified copies of the priority docum	ents have been received.			
2. Certified copies of the priority docum				
3. Copies of the certified copies of the p	•	received in this National Stage		
application from the International But	• • • • • • • • • • • • • • • • • • • •	t received		
* See the attached detailed Office action for a	list of the certified copies no	: received.		
Attachment(s)	_			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		Summary (PTO-413) (s)/Mail Date		

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

Paper No(s)/Mail Date _

6) Other: _

5) Notice of Informal Patent Application (PTO-152)

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DETAILED ACTION

This office action is in response to the amendment filed September 22, 2005.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1, 3-5, 7-9, and 11-12 are rejected under 35 U.S.C. 102 (e) as being anticipated by Xu et al. (Xu) (Patent Number 6,427,439).

Regarding claims 1, 5, and 9, Xu discloses an exhaust gas purifying apparatus for an internal combustion engine (10) comprising: a NOx selective reduction catalyst (20) disposed in an exhaust passage of said internal combustion engine for purifying NOx in exhaust gases

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flowing through said exhaust passage under the existence of a reducing agent; a NOx detector (28) disposed in said exhaust pipe at a location downstream of said NOx selective reduction catalyst for detecting a NOx concentration in exhaust gases; a reducing agent supply unit (e.g. 16, 22, 24) for supplying the reducing agent to said NOx selective reduction catalyst; and supply amount determining means (e.g. 12, 22, 24) for determining the amount of the reducing agent supplied to said NOx selective reduction catalyst by said reducing agent supply unit such that the NOx concentration detected by said NOx detector reaches an extreme value (e.g. See Figs. 2-7; col. 3, lines 11-67; col. 4, lines 1-67; col. 5, lines 1-26).

Regarding claims 3, 7, and 11, Xu further discloses a reducing agent production unit for producing the reducing agent using at least a fuel for said internal combustion engine as a raw material (e.g. See Figs. 2-7; col. 3, lines 11-67; col. 4, lines 1-67; col. 5, lines 1-26).

Regarding claims 4, 8, and 12, Xu further discloses that the reducing agent is ammonia (e.g. See Figs. 2-7; col. 3, lines 11-67; col. 4, lines 1-67; col. 5, lines 1-26).

Claims 1, 3-5, 7-9, and 11-12 are rejected under 35 U.S.C. 102 (e) as being anticipated by Kawai et al. (Kawai) (Patent Number 6,755,014).

Regarding claims 1, 5, and 9, Kawai discloses an exhaust gas purifying apparatus for an internal combustion engine (1) comprising: a NOx selective reduction catalyst (17) disposed in an exhaust passage of said internal combustion engine for purifying NOx in exhaust gases flowing through said exhaust passage under the existence of a reducing agent; a NOx detector (26) disposed in said exhaust pipe at a location downstream of said NOx selective reduction catalyst for detecting a NOx concentration in exhaust gases; a reducing agent supply unit (e.g.

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18, 29, 37) for supplying the reducing agent to said NOx selective reduction catalyst; and supply amount determining means (e.g. 46) for determining the amount of the reducing agent supplied to said NOx selective reduction catalyst by said reducing agent supply unit such that the NOx concentration detected by said NOx detector reaches an extreme value (e.g. See Figs. 1-9; col. 5, lines 32-67; cols. 6-7, lines 1-67; col. 8, lines 1-38).

Regarding claims 3, 7, and 11, Kawai further discloses a reducing agent production unit for producing the reducing agent using at least a fuel for said internal combustion engine as a raw material (e.g. See Figs. 1-9; col. 5, lines 32-67; cols. 6-7, lines 1-67; col. 8, lines 1-38).

Regarding claims 4, 8, and 12, Kawai further discloses that the reducing agent is ammonia (e.g. See Figs. 1-9; col. 5, lines 32-67; cols. 6-7, lines 1-67; col. 8, lines 1-38).

Allowable Subject Matter

Claims 2, 6, and 10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Since allowable subject matter has been indicated, applicant is encouraged to submit formal drawings in response to this Office action. The early submission of formal drawings will permit the Office to review the drawings for acceptability and to resolve any informalities remaining therein before the application is passed to issue. This will avoid possible delays in the issue process.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Examiner Binh Tran whose telephone number is (571) 272-4865. The

examiner can normally be reached on Monday-Friday from 8:00 a.m. to 4:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Thomas E. Denion, can be reach on (571) 272-4859. The fax phone numbers for the organization

where this application or proceeding is assigned are (571) 273-8300 for regular communications

and for After Final communications.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BT

December 22, 2005

Binh Q. Tran

Patent Examiner

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